

## **APPENDIX II.2**

### **SUPPLEMENTAL TEST PROCEDURE MODIFICATIONS**

State of California  
AIR RESOURCES BOARD

CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES  
FOR 2001 MODEL YEAR AND LATER  
SPARK-IGNITION MARINE ENGINES

Adopted: October 21, 1999  
Amended: July 21, 2002  
Amended: September 22, 2006  
Amended: <insert date>

Note: This appendix shows staff's proposed supplemental test procedure modifications to portions of the amendments adopted by the Air Resources Board on July 24, 2008, in accordance with Resolution 08-36. Only the sections that have changed since the release of the first "15-day" notice of modified text on March 25, 2009, are shown. Existing text and text originally proposed for adoption during the comment period after the release of the Staff Report on June 6, 2008, are shown without underline as permitted in title 1, California Code of Regulations, section 8. Text from the first "15-day" notice of modified text on March 25, 2009, is shown in underline to indicate additions and ~~strikeout~~ to indicate deletions. The additional proposed modifications made available by this second "15-day" notice are shown in double underline to indicate additions and ~~double strikeout~~ to indicate deletions. Only these double underlined and ~~double strikeout~~ modifications are subject to comment during this comment period.

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are provided for reference to indicate portions of the existing test procedures and approved amendments or previously proposed modifications thereto that remain unchanged.

CALIFORNIA EXHAUST EMISSION STANDARDS AND TEST PROCEDURES  
FOR 2001 MODEL YEAR AND LATER SPARK-IGNITION MARINE ENGINES

**Part I. Emission Regulations for 2001 and Later New Spark-Ignition Marine Engines, General Provisions.**

**1. General Applicability.**

(a)

\* \* \* \* \*

**9. Exhaust Emission Standards for 2001 and Later Spark-Ignition Marine Engines**

(a)

\* \* \* \* \*

(c) Not-to-Exceed (NTE) Limits

\* \* \* \* \*

(3) NTE limits do not apply in the 2010 through 2012 model years to engine families that are certified based on carryover emission data from the 2009 model year. This may include models that were certified to federal requirements only, so long as no new testing is otherwise required per the provisions for certification and the issuance of an Executive Order contained in title 13, CCR, chapter 9, article 4.7, or these test procedures:

(4) NTE limits do not apply to high performance engines.

\* \* \* \* \*

**20. Test Procedures, General Requirements.**

(a)

\* \* \* \* \*

(c) In addition to the test procedures in Part IV of this document, or alternately those contained in Title 40, Code of Federal Regulations, Subpart F, Section 1045.501, manufacturers of SI sterndrive/inboard marine engines with maximum power less than or equal to 373 kilowatts shall use the procedures contained in Title 40, Code of Federal Regulations, Subpart F, Section 1045.515 for determining compliance with NTE limits required in Title 13, California Code of Regulations, Section 2442(c) (synonymously referred to as "NTE standards" in the Code of Federal Regulations). Section 1045.515 and all nested references are incorporated by reference herein. Prior to the 2015 model year, compliance with the NTE requirements for supercharged four-stroke outboard

engines above 150 kW that are not equipped with catalysts may optionally be determined by dividing the NTE zone specified in Title 40, Code of Federal Regulations, Subpart F, Section 1045.515(c)(6) based on a speed cutpoint of 70 percent of maximum test speed instead of 50 percent of maximum test speed.

Figure 20-1 NTE Zone and Subzones for Catalyst-Equipped Engines

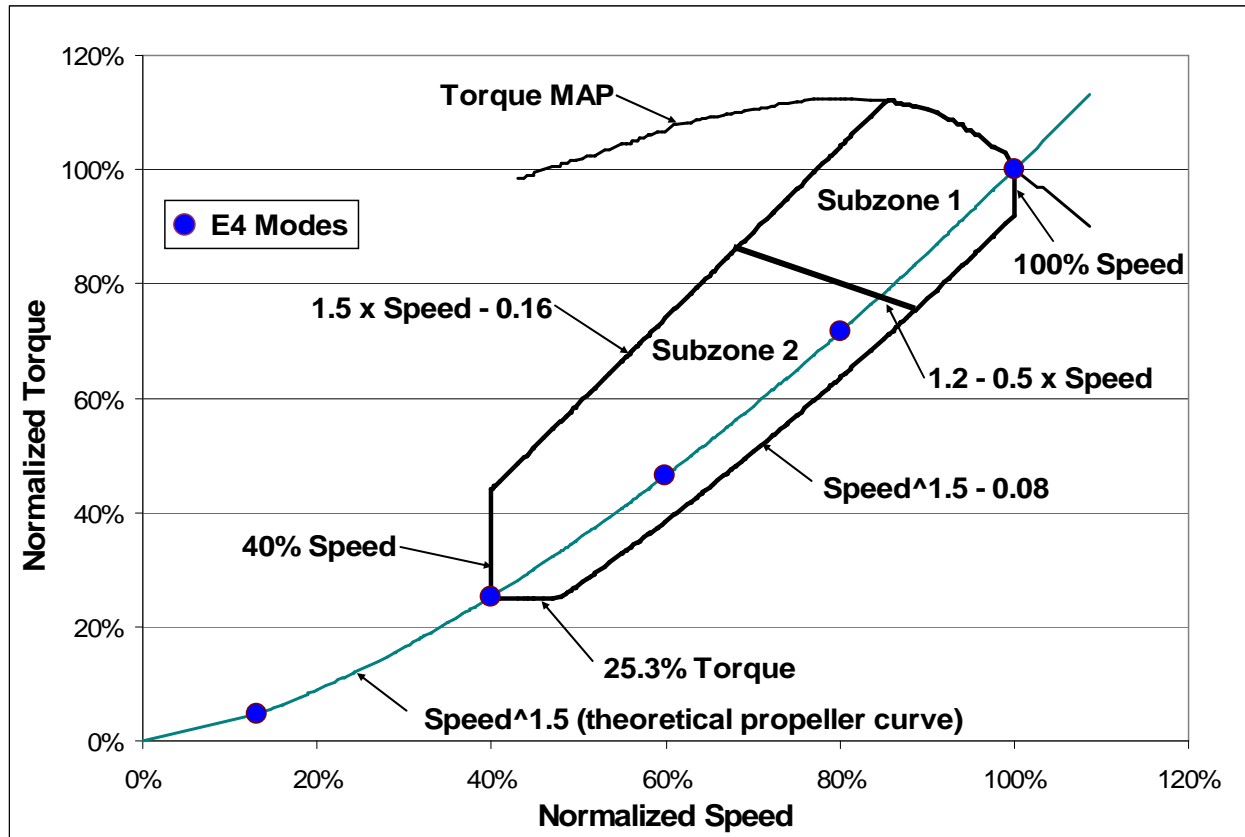


Figure 20-2 NTE Zone and Subzones for Two-Stroke Engines without Catalysts

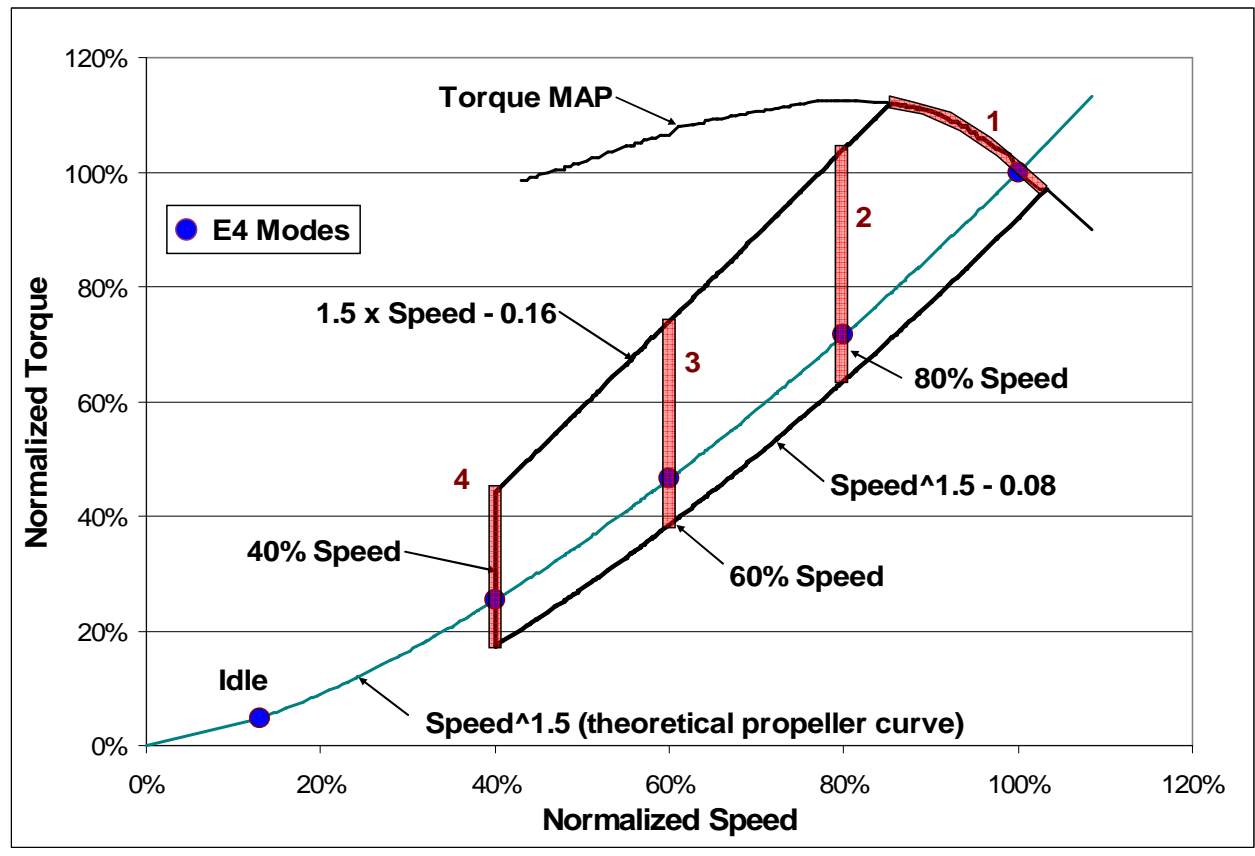
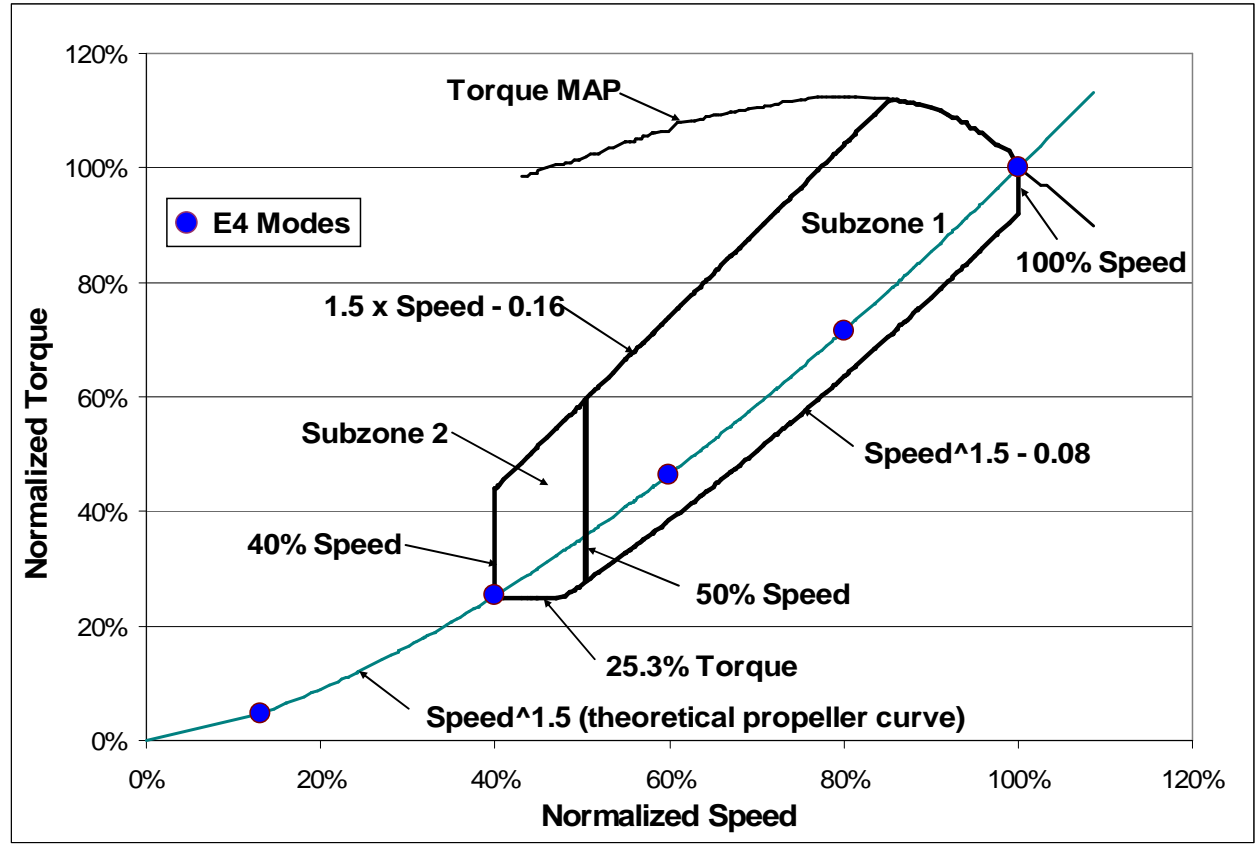


Figure 20-3 NTE Zone and Subzones for Four-Stroke Engines without Catalysts



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